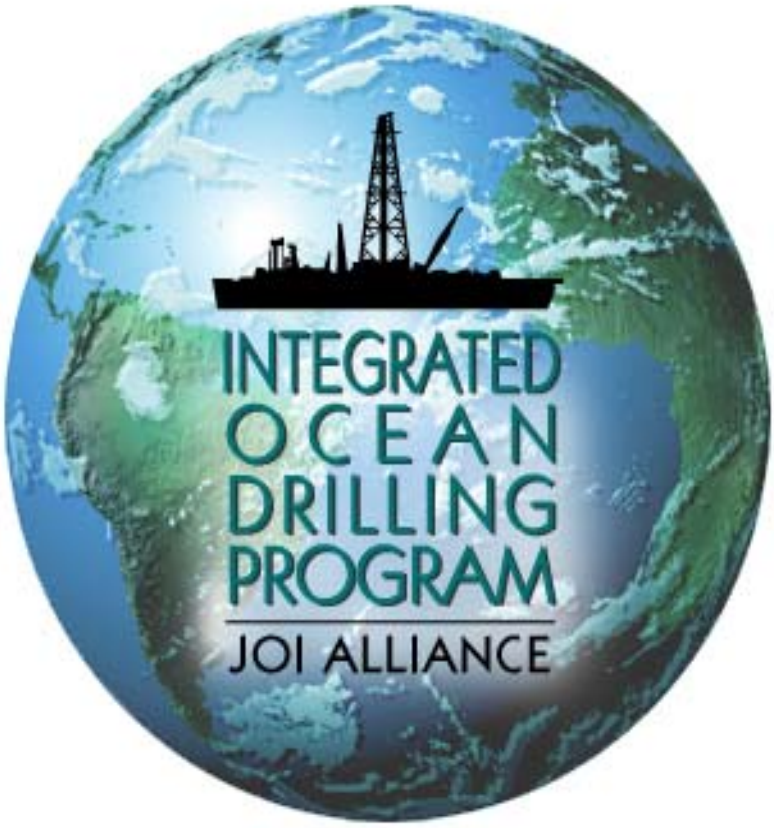
14 August 2006



1 April–30 June 2006

FY06 Quarterly Report 3

NSF Contract No. OCE-0352500

Submitted by the JOI Alliance to

The National Science Foundation

and

IODP Management International, Inc.

TABLE OF CONTENTS

INTRODUCTION

The organization of this quarterly report reflects activities and deliverables that are outlined in the Integrated Ocean Drilling Program U.S. Implementing Organization (IODP-USIO) FY06 Annual Program Plan as implemented by the Joint Oceanographic Institutions, Inc. (JOI), Alliance during the third quarter of FY06.

EXPEDITION OPERATIONS

STATUS OF EQUIPMENT

LOAN OF IODP-USIO EQUIPMENT

IODP equipment loaned by IODP-USIO, with National Science Foundation (NSF) and JOI approval, to Overseas Drilling Limited (ODL) was in continued use on the *JOIDES Resolution* during the India Gas Hydrate drilling program. USIO custodians are supervising use of all loaned equipment during this program. Completion of the ODL program and demobilization of the vessel are planned to take place in Singapore in late August 2006 (this is not an IODP-USIO activity).

TECHNOLOGY DEVELOPMENT

PROJECTS AND OTHER ACTIVITIES

IODP-USIO SCIENCE SERVICES, TAMU, ENGINEERING SERVICES

Simulated Borehole Test Facility: Testing is in progress to determine the proper procedures and methods for mixing and consolidating the clay for use in testing with the Simulated Borehole Test Facility (SBTF). Designs for a separate consolidation chamber are in progress and will be finalized when the proper methods have been developed.

Calibration Laboratory: A quote was received and accepted from Texas A&M University (TAMU) Facilities for modifications to the Engineering Services laboratory areas. The temperature standard and deadweight tester were sent to their respective manufacturers (Hart Scientific and Amatek) for yearly recalibration, and other components for calibration testing have been placed on order.

Downhole Sensor Sub: A meeting was held at APS Technology in Connecticut to determine the go-forward plan for the Downhole Sensor Sub (DSS). APS Technology will repair the tools and make them ready for IODP-USIO acceptance testing. A test date has been set up for mid-September 2006 at Schlumberger's Genesis rig.

FY07–08 EXPEDITION PLANNING

USIO IODP NanTroSEIZE 2 Expedition: Preliminary designs are underway for a stacked advanced circulation obviation retrofit kit (ACORK)/circulation obviation retrofit kit (CORK) II to be installed in a single borehole on the USIO NanTroSEIZE 2 Expedition. Meetings have been held to discuss packer design to be used in the CORK installation, and a design review meeting has been scheduled for August 2006.

Juan de Fuca Hydrogeology 2 Expedition: Preliminary design work is underway on a CORK II to be deployed on the Juan de Fuca Hydrogeology 2 Expedition. The design will include a "free flow" CORK II head and a 10-3/4 inch to 16 inch casing seal. A design review meeting has been scheduled for fall 2006.

IODP-USIO Science Services, TAMU, Analytical Services

The Analytical Services department prepared a scope of work and preliminary design for the IODP Sample Material Curation System Central Inventory (SMCS-CI), and received IODP-MI approval to implement the SMCS-CI and its associate components. Contractor selection process has begun.

P. Blum (Supervisor of Analytical Services) and P. Foster (Applications Developer Administrator) attended the Corewall Workshop in Washington, D.C., 8–10 May 2006 and presented the USIO plans for the information management system to be used on the USIO riserless drilling vessel and the Descriptive and Interpretative Information Capture (DESCINFO) project, as these plans are relevant for potential Corewall applications on the riserless vessel.

IODP-USIO Science Services, LDEO, Engineering and Technical Services

Modular High-Temperature Tool: Temperature tests were performed and the wiring of the Modular High-Temperature Tool (MTT) was modified. Two MTT interface modules were manufactured, and testing and modifications are ongoing.

BRG Building Renovation: The LDEO Borehole Research Group (BRG) building renovation Phase2a was completed during the quarter.

REPORTS/PUBLICATIONS

IODP-USIO Annual Program Plan for IODP-MI and NSF

FY07 Annual Program Plan

On 11 April 2006, the JOI Alliance submitted the IODP-USIO FY07 Annual Program Plan to IODP Management International, Inc. (IODP-MI), and NSF for review and evaluation. The draft FY07 Program Plan consists of one expedition that constituted the science operating costs (SOCs) and platform operating costs (POCs) of the IODP expedition titled Cenozoic Equatorial Pacific Paleoceanography (or Equatorial Pacific 1) as well as long–lead time items and the associated costs for expeditions proposed for FY08 and requests for continuing SOC shore-based activities during FY07. The IODP-USIO FY07 Annual Program Plan budget totaled $23,376,150, with $11,161,245 requested in SOCs (from IODP-MI) and $12,214,905 requested in POCs (from NSF). On 11 May 2006, a revised version of the IODP-USIO FY07 Annual Program Plan was submitted that provided additional budget narrative clarification.

On 8 May 2006, the JOI Alliance submitted to NSF an appendix to the IODP-USIO FY07 Annual Program Plan that outlines additional requests related to the IODP-USIO U.S. Systems Integration Contract (SIC), which include activities related to the mobilization of the U.S. Scientific Ocean Drilling Vessel (SODV) after completion of the Major Research Equipment and Facility Construction (MREFC)-funded SODV project, as well as other required tasks.

On 9 June 2006, NSF requested revisions to the IODP-USIO FY07 Annual Program Plan and the IODP-USIO FY07 Annual Program Plan Appendix. USIO staff worked on completion of this request during the remainder of the quarter.

IODP-USIO FY06 IODP Quarterly Report

The report for the second quarter of FY06 (January–March 2006) was submitted to NSF and IODP-MI on 11 May 2006.

IODP SCIENTIFIC PUBLICATIONS

PRELIMINARY REPORTS

Volume 310 (Tahiti Sea Level): The edited and formatted report was forwarded to the European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO) on 24 April 2006 for publication on the ECORD Web server.

Volume 312 (Superfast Spreading Rate Crust 3): Published on 20 April 2006 (see "Appendix H").

PROCEEDINGS OF THE INTEGRATED OCEAN DRILLING PROGRAM

Volume 304/305 (Oceanic Core Complex Formation, Atlantis Massif): Published on 3 June 2006 (see "Appendix H").

OUTREACH

MUSEUM PARTNERSHIPS

JAPAN/U.S. PUBLIC UNDERSTANDING OF RESEARCH PLANNING

On 1 June 2006, F. Rack (Director, Ocean Drilling Programs, JOI) and Ann Klaus (Deputy Director of Data Services, IODP-USIO Science Services, TAMU) joined Y. Kawamura (Center for Deep Earth Exploration [CDEX]) to meet with staff members from the Miraikan National Museum of Emerging Science and Innovation in Tokyo, Japan. The meeting included touring the museum's IODP exhibit, viewing a new video that highlights the *JOIDES Resolution* and the *CHIKYU* that was produced in conjunction with Museum Educator H. Sakurai's participation on IODP Expedition 312, and discussing ideas for possible collaboration on future projects.

PUBLIC AFFAIRS

The USIO continued to focus attention this quarter on laying the groundwork for media events and outreach opportunities in FY06 and beyond. Highlights included:

- Coordinated with the IODP Expedition 309/312 Staff Scientists and Co-Chief Scientists, as well as communications officers at NSF and IODP-MI, to develop an outreach plan for the distribution of the embargoed news release in advance of the 4 April 2006 publication in *Science* of the Science Party's drilling accomplishments. USIO communications staff developed and delivered customized pitches to more than 80 science reporters at major international, national, regional, and local news organizations covering the hometowns of Expedition 309/312 Science Party members. They consulted with the Science Party's lead authors of the papers to provide guidance in their role as program spokesmen, and organized a teleconference for remote journalists interested in hearing comments from the lead authors. At least eight prominent news organizations ran news stories within the days following the publication in *Science*. One of these stories was a news service story that was picked up by major online news sources Yahoo! News, FoxNews.com, and MSNBC.com. The joint IODP-USIO/IODP-MI/NSF news release was carried on at least 10 other online news sites (see "Public Relations Materials" section for more details).
- Q. Conyers, the JOI Alliance 2005–2006 Historically Black Colleges and Universities (HBCU) Fellow, worked closely with USIO communications staff to develop and implement a communications outreach plan designed to capitalize on the awareness-raising

opportunities among minorities from a 12 April 2006 Distinguished Lecturer Series event at Savannah State University, a minority-serving institution.

PUBLIC RELATIONS MATERIALS

The following news releases were distributed to more than 200 science journalists this quarter:

- Scientists Penetrate Fossil Magma Chamber Beneath Intact Ocean Crust—Achieving Scientific "First" (20 April 2006).
- Media Advisory for Tele Press Conference: Scientists, Ocean Drillers Achieve a "First" (19 April 2006).
- Media Advisory: University of Texas at Austin Hosts Distinguished Oceanographer (25 April 2006).

The following Web sites ran IODP-USIO/IODP-MI/NSF news releases verbatim:

- Marine Technology Reporter, http://www.seadiscovery.com/mt/mtStories.aspx?ShowStrory=1003962102
- PhysOrg.com, http://www.physorg.com/news64763909.html
- Terra Daily, http://www.terradaily.com/reports/Scientists_Penetrate_Fossil_Magma_Chamber_Beneath_Intact_Ocean_Crust.html
- YubaNet, http://www.yubanet.com/artman/publish/article_34698.shtml
- Science Daily, http://www.sciencedaily.com/releases/2006/04/060420234436.htm
- Innovations Report, http://www.innovationsreport.de/html/berichte/geowissenschaften/bericht-58268.html
- Playfuls.com, http://www.playfuls.com/news_00788_Geologists_Drill_Into_Fossil_Magma_Chamber_Deep_Under_The_Ocean.html
- SpaceRef.com, http://www.spaceref.com/news/viewpr.html?pid=19656
- The Hindu, http://www.hindu.com/thehindu/holnus/008200604222121.htm
- Kansas City infoZine, http://www.infozine.com/news/stories/op/storiesView/sid/14487/

News articles, programs, media citations, or public commentary related to IODP expeditions and postexpedition activities involving the USIO that were published during this quarter included the following:

- Biello, D., 2006. Drilled core exposes hitherto unseen layer of Earth's crust. *Scientific American,* 21 April 2006. http://www.sciam.com/article.cfm?chanID=sa003&articleID=00054A0F-FE4F-1447-B87183414B7F0000
- Carey, B., 2006. Scientists find the elusive gabbro. *LiveScience.com,* 20 April 2006. http://www.livescience.com/forcesofnature/060420_earth_drill.html (This news story also ran on Yahoo! News, FoxNews.com, and MSNBC.com.)
- *Discovery Channel Canada,* 2006. Daily planet. *Discovery Channel Canada,* 20 April 2006.

- Furnes, H., Dilek, Y., Muehlenbachs, K., **Banerjee, N.R.,** 2006. Tectonic control of bioalteration in modern and ancient oceanic crust as evidenced by carbon isotopes. *Isl. Arc,* 15(1):143–155. doi: 10.1111/j.1440-1738.2006.00516.x
- Gradzyk, M., 2006. Experts hope rocks unravel Earth's secrets. *Associated Press,* 18 June 2006. http://www.usatoday.com/tech/science/discoveries/2006-06-18-rocks-earth_x.htm (Text of this news story also ran on the Web sites of: CBS News; MSNBC.com; AOL.com; ABC News; *USA Today;* FOX News; *Washington Post;* Newsday; *Houston Chronicle; Seattle Post Intelligencer; Dallas Morning News; Fort Worth Star Telegram; San Jose Mercury News; Contra Costa Times;* The State [South Carolina]; *Pioneer Press* [Minnesota]; *Sacramento Bee; Fort Wayne Journal Gazette;* LiveScience.com; Forbes; News 8 Austin; KFMB [California]; KRIS-TV [Texas]; KTEN [Texas]; *Ottawa Recorder; Hinesberg Journal; The Westfall Weekly News; Pierceland Herald; Times of India;* Leading The Charge [Australia]; *Ely Times; Brocktown News; Sky Valley Journal; Standard-Speaker* [Pennsylvania]; *Jackson News-Tribune; Wyoming News; The Kindred Times* [Utah]; *The Saginaw News;* SiliconValley.com; *Belleville News-Democrat; Biloxi Sun Herald;* phillyBurbs.com; *Bradenton Herald; The Ledger* [Florida]; *Times Daily* [Alabama]; *Fort Wayne News Sentinel;* Kentucky.com; PhysOrg.com; Top Tech News; NewsFactor Network; CIO Today; Sci-Tech Today; HappyNews.com; *Bryan College Station Eagle; Portsmouth Herald News;* CNN.com; CNN International.com; *Hindu* [India]; *Khaleej Times* [United Arab Emirates]; Canoe.ca; PlanetSave.com; *Grand Forks Herald; Indianapolis Star; Duluth News-Tribune; Kamloops Daily News;* and *The Canadian Press.*)
- Hager, E.B., 2006. Scientist at work—Douglas Wilson: with time running out, a discovery deep in the crust of the Earth. *The New York Times,* 16 May 2006.
- Hicks, K., 2006. Rock samples provide insight into Earth's history. *The [Texas A&M University] Battalion,* 22 June 2006. http://www.thebatt.com/media/storage/paper657/news/2006/06/22/News/Rock-Samples.Provide.Insight.Into.Earths.History-2117840.shtml?norewrite200607252335&sourcedomain=www.thebatt.com
- **John, C.M.,** Adatte, T., and Mutti, M., 2006. Regional trends in clay mineral fluxes to the Queensland margin and ties to middle Miocene global cooling. *Palaeogeogr., Palaeoclimatol., Palaeoecol.,* 233:204–224.
- Kerr, R.A., 2006. Astrobiology Science Conference 2006: Life slow enough to live on radioactivity. *Science,* 312(5771):179. doi:10.1126/science.312.5771.179a
- Kerr, R.A., 2006. Drillers hit deep-sea pay dirt. *ScienceNOW Daily News,* 20 April 2006.
- Lakdawalla, E., 2006. Deep drilling into the Earth's crust. *The Planetary Society Weblog,* 19 May 2006. http://www.planetary.org/blog/article/00000581/
- Leckie, R.M., St. John, K., **Peart, L., Klaus, Ann,** Slough, S., **Niemitz, M.,** 2006. Education and science connect at sea. *Eos, Trans. Am. Geophys. Union,* 87(24):240. doi:10.1029/2006EO240003.
- Maynard, B., 2006. Fire in ice. *Popular Mechanics,* April 2006. http://www.popularmechanics.com/science/earth/2558946.html
- *New Scientist,* 2006. Drill digs deeper than ever into Earth's crust. *New Sci.,* 29 April 2006.

- *Santa Barbara (CA) NewsPress*, 2006. Ocean crust is giving up its secrets. *Santa Barbara NewsPress*, 21 April 2006.
- *Sea Technology*, 2006. Fossil magma chamber penetrated beneath ocean crust. *Sea Technol.*, 47(5):53–54.
- Sternbach, L., and Osten, B., 2006. HGS Guest Night June 17, 2006—deep sea sediment cores reveal geological evidence of long-term global climate change. *Houston Geol. Soc. Bull.*, 48(9):39–45. http://www.hgs.org/attachments/articles/855/HGS2006mayfinal.pdf
- Sternbach, L., and Osten, B., 2006. HGS Guest Night June 17—deep sea sediment cores reveal geological evidence of long-term global climate change, Part 2. *Houston Geol. Soc. Bull.*, 48(10):33–38. http://www.hgs.org/attachments/articles/892/HGS%20june%202006%20final%206_8_06.pdf
- Wilson, D.S., Teagle, D.A.H., Alt, J.C., **Banerjee, N.R.,** Umino, S., Miyashita, S., Acton, G.D., Anma, R., Barr, S.R., Belghoul, A., Carlut, J., Christie, D.M., Coggon, R.M., Cooper, K.M., Cordier, C., Crispini, L., Rodriguez Durand, S., **Einaudi, F.,** Galli, L., Gao, Yongjun, Geldmacher, J., Gilbert, L.A., Hayman, N.W., Herrero-Bervera, E., Hirano, N., Holter, S., Ingle, S., Jiang, S., Kalberkamp, U., Kerneklian, M., Koepke, J., Laverne, C., Lledo Vasquez, H.L., Maclennan, J., Morgan, S., Neo, N., Nichols, H.J., Park, S.-H., **Reichow, M.K.,** Sakuyama, T., Sano, T., Sandwell, R., Scheibner, B., Smith-Duque, C.E., Swift, S.A., Tartarotti, P., Tikku, A.A., Tominaga, M., Veloso, E.A., Yamasaki, T., Yamazaki, S., and Ziegler, C., 2006. Drilling to gabbro in intact ocean crust. *Science*, 312(5776):1016–1020. doi:10.1126/science.1126090

CONGRESSIONAL OUTREACH

- Members of the U.S. Congress and appropriate staff were invited by the Coalition for National Science Funding (CNSF) to attend a reception and exhibition on 7 June 2006. The exhibition featured science, mathematics, and engineering research and education projects supported by NSF. USIO staff joined researchers, educators, and students from all over the United States to answer questions about their efforts to help meet the nation's research and education goals. The USIO exhibit featured a poster and report detailing the awareness-raising impact from IODP Expedition 309/312.
- The USIO sponsored Capitol Hill Ocean Week (CHOW) 2006, coordinated by the National Marine Sanctuary Foundation, by placing a full-page, scientific ocean drilling themed ad in the CHOW brochure.

IODP-USIO WEB SITE

The IODP-USIO Web site was given a new look with a new homepage layout, a redesigned banner, and reorganized navigation to primarily address changes in the "Education" and "Newsroom" (public affairs) section contents. Outdated education and outreach content was removed and links were added to joilearning.org (the centralized place for ocean drilling educational content for the USIO).

A total revision of content and layout was also done for the Micropaleontological Reference Centers (MRCs) Web pages (iodp.tamu.edu/curation/mrc.html) that the USIO hosts as a service to the MRC curators. The changes were requested by lead curator D. Lazarus (Natural History Museum, Berlin, Germany).

See “Appendix I” for new Web content and access statistics.

PUBLICATIONS

This quarter saw the publication of the Expedition 304/305 joint volume of the *Proceedings of the Integrated Ocean Drilling Program* and the Expedition 310 and 312 Preliminary Reports. See “Appendix H” for dates and URLs. In addition, the USIO hosted Volume 302 of the *Proceedings of the Integrated Ocean Drilling Program* from 7 March to 16 May 2006, when the volume was moved to ECORD’s Web server.

IODP DATABASES

Janus Database: Data from Expeditions 301, 304, and 305 are available to the public online. In addition, working in collaboration with the ESO, the USIO made coring summary data, site trivia, and sampling data from Expedition 302 available to the public online. Data from Expeditions 303 and 306–311 are under moratorium and therefore available only to the science parties.

Log Database: Lamont-Doherty Earth Observatory (LDEO) of Columbia University has begun a project to transition to a relational database for logging metadata. This change will allow better integration with other USIO databases, simplify the generation of metadata, and allow for more complex search queries by end-users. Requirements gathering and data modeling for this new system have begun.

IODP-USIO SUPPORT ACTIVITIES

INTERACTIONS WITH IODP-MI AND IODP IMPLEMENTING ORGANIZATIONS

IODP-MI OPERATIONS TASK FORCE—EXPEDITION 308

The IODP-MI Operations Review Task Force (ORTF) meeting was held 18 and 19 May 2006 in Washington, D.C. (see “Appendix E” for list of USIO attendees). The meeting reviewed operations associated with Expedition 308, which was designed as an initial effort to fully address the objectives in the original IODP Proposal 589-Full3. The expedition met the major operational objectives as outlined in the Scientific Prospectus, which resulted in many of the science objectives of the full proposal being achieved and provided the foundation for future efforts to implement long-term in situ monitoring experiments. The ORTF made a variety of recommendations, ranging from issues associated with short lead-time planning time frame at the USIO to improvements to downhole tool and other analytical systems, which are currently being addressed. The official ORTF meeting notes will be available at the IODP-MI Web site.

SCIENCE STEERING AND EVALUATION PANEL

The Science Steering and Evaluation Panel (SSEP) meeting was held 29 May–1 June 2006 in Potsdam, Germany (see “Appendix E” for list of USIO attendees). Following presentations from liaisons, the panel evaluated 27 proposals that had been grouped into three themes: deep biosphere and subseafloor ocean, ocean history and paleoclimate, and solid Earth. Three proposals were forwarded to the Science Planning Committee (SPC). At the request of SPC, the panel discussed the mission concept and proposed two mission themes: (1) seismogenic zones and (2) global climate change and carbon cycling: testing and constraining predictions for future climate change. Seven students from the Minorities Striving and Pursuing Higher Degrees of Success (MS PHD’S) in the Earth Systems Science Program attended the meeting (see “Appendix K” for details).

OPERATIONS TASK FORCE

The Operations Task Force (OTF) meeting was held 5 and 6 June 2006 in Washington, D.C. (see Appendix E for list of USIO attendees). The meeting reviewed plans for the operations schedule for FY07 and beyond. Among the issues discussed was the impact of the SODV schedule on upcoming operations. In addition, discussions began on plans for the FY09 and FY10 ship track and the financial implications of increasingly complex cruises.

IODP-MI OPERATIONS REVIEW TASK FORCE—EXPEDITIONS 309 AND 312

The second ORTF meeting of the quarter was held 12 and 13 June 2006 in Washington, D.C. (see "Appendix E" for list of USIO attendees). The meeting reviewed operations associated with combined Expeditions 309 and 312 (Superfast Spreading Rate Crust 2 and 3). Both expeditions were successful and achieved their major scientific objectives. A high-impact overview of the expedition was published in *Science* and there was considerable subsequent press coverage (see "Public Relations Materials" section for a detailed list). The review did identify a variety of issues related to short lead time from scheduling to sailing and the associated late assignment of key staff, which did impact efficient implementation. The official ORTF meeting notes will be available at the IODP-MI Web site.

ENVIRONMENTAL PROTECTION AND SAFETY PANEL

The Environmental Protection and Safety Panel (EPSP) meeting was held 22 and 23 June 2006 in Villefranche sur Mer, France (see "Appendix E" for list of USIO attendees). J. Baldauf (Deputy Director of Science Services, IODP-USIO Science Services, TAMU) presented the USIO review and noted key operational issues including the demobilization of the *JOIDES Resolution*, staffing changes, and SODV highlights, and the continuing work on the development of the environmental impact statement (EIS) for FY07and beyond. A preferred drilling program was presented and clearance and other schedule issues were noted. The preliminary results of the shallow hazard assessment for Canterbury were presented and potential safety issues were raised. Additional discussions will take place between operator and contractor prior to the December 2006 EPSP meeting.

SCIENTIFIC TECHNOLOGY PANEL MEETING

The Scientific Technology Panel (STP) meeting was held 26–28 June 2006 in Helsinki, Finland (see "Appendix E" for list of USIO attendees). P. Blum (Supervisor of Analytical Services, IODP-USIO Science Services, TAMU) and S. Higgins (Logging Staff Scientist, IODP-USIO Science Services, LDEO) presented Program updates and project status summaries.

ENGINEERING DEVELOPMENT PANEL

The Engineering Development Panel (EDP) meeting was held 27–29 June 2006 in Windischeschenbach, Germany, site of the German Continental Deep Drilling Program (KTB) deep crustal penetration drilling project (see "Appendix E" for list of USIO attendees). The primary meeting focus was development of the EDP engineering technology roadmap. Three breakout groups (vessel and drilling; coring, sampling, and logging; and borehole infrastructure) were charged to evaluate as many as 30 different engineering development projects in terms of their relevance to the IODP Initial Science Plan. The EDP summer meetings have been planned to provide SPC with advice regarding FY+2 engineering developments; the winter meeting is to include a review of current engineering projects and FY+1 schedule as well as long-term development needs.

PUBLICATIONS INTERACTIONS

IODP FY07–08 Scientific Publications: IODP-MI formally charged the USIO Publication Services Department on 5 April 2006 to provide technical editing and production of IODP scientific reports and publications for CDEX in FY07 and FY08, at least for NanTroSEIZE Project Stage 1 publications. This model is similar to the one under which the USIO has edited and produced IODP Phase 1 scientific reports and publications for ESO.

Postcruise Research Coordination Services: On 5 April 2006, IODP-MI requested that the USIO provide postcruise publication coordination services for IODP Phase 1 expeditions. The USIO was instructed to provide centralized record keeping of postcruise research manuscript submissions, facilitate the peer review process for IODP synthesis papers and data reports that will be published in the *IODP Proceedings,* and provide coordination assistance to Editorial Review Board members and scientists who incur IODP publication obligations. H. C. Larsen (Vice President of Science Planning, IODP-MI, Sapporo) said IODP-MI believes the most efficient approach for IODP Phase 1 is to assign this work to the implementing organization (IO) responsible for producing all IODP Phase 1 publications.

Manuscript Submission Guidelines: The USIO Publication Services Department provided background documentation in early April 2006 to IODP-MI for preparation of Appendix E of the IODP Sample, Data, and Obligations Policy, which covers postcruise research manuscript submission and notification procedures. In late April 2006, IODP-MI assigned the preparation of the procedures to the USIO as an implementation task. At the end of the reporting period, the guidelines were in development in conjunction with related author submission guidelines for the submission of IODP scientific publications.

Copyright Forms: Earlier this year, IODP-MI provided an interim manuscript and photograph copyright release license agreement to the USIO to use for all papers in the *Proceedings of the Integrated Ocean Drilling Program.* An updated form was provided by IODP-MI in late June 2006 for *Proceedings* authors to download, sign, and submit. The major change between the two documents is substitution of the word “assignment” for “license.”

APPENDIX A: CONTRACTUAL ACTIVITIES

JOI

NSF CONTRACT OCE-0352500 WITH JOI

JOI received no modifications from NSF during this reporting period that dealt with IODP.

JOI SUBCONTRACT JSC 4-02 WITH TAMRF

JOI issued the following modifications during the reporting period.

- Modification 13: Reduced the IODP-USIO FY06 Annual Program Plan budget by $1,410,000 with associated adjustments to SOC, POC, and SIC budgets.
- Modification 14: Increased SOC portion of IODP-USIO FY06 Program Plan budget by $178,332.
- Modification 15: Changed the IODP-USIO FY06 Annual Program Plan scope of work, deleting deliverables from the POC and Systems Integration Contract (SIC)-demobilization Technical, Engineering, and Science Support work breakdown element (WBE) and adding deliverables to SIC non-demobilization Technical, Engineering, and Science Support WBE.

JOI SUBCONTRACT JSC 4-03 WITH LDEO

JOI issued the following modifications during the reporting period.

- Modification 11: Reduced FY05 unobligated carryforward by $85,778.
- Modification 12: Provided final increment of FY06 funding, fully funding the FY06 Annual Program Plan at $3,389,889.

LDEO

LDEO SUBCONTRACT WITH ORI

- Amendment 1: Provided FY06 funding.

LDEO SUBCONTRACT WITH NEB

- Amendment 2: Provided FY06 funding.

LDEO SUBCONTRACT WITH LUBR

- Amendment 2: Provided FY06 funding.

LDEO SUBCONTRACT WITH AACHEN

- Amendment 2: Provided FY06 funding.

LDEO SUBCONTRACT WITH SCHLUMBERGER

Columbia entered into a contract with Schlumberger to provide USIO logging services for FY07 and beyond. The contract also provided for the provision of services to the SODV project during FY06 and beyond.

TAMRF/TAMU

CONTRACTS/PROCUREMENT ACTIVITY (100K OR GREATER)

- 1 May 2006: Submitted the first FY06 SF 294 reports.

- 6 June 2006: Received prior approval for the Inventory Asset Management System.
- 20 June 2006: Purchase order was issued for the Inventory Asset Management System.

APPENDIX B: FINANCE REPORT

Please contact info@joiscience.org for hard copies of financial pages.

APPENDIX C: PERSONNEL STATUS

JOI

The following positions were vacated during the quarter:

- Webmaster (Joshua Lieb): 26 April 2006
- Manager of Meetings and Administration (Amy Page): 28 April 2006

The following positions were opened and advertised during the quarter:

- Office Assistant
- Meeting/Travel Coordinator
- Webmaster

The following positions were filled during the quarter:

- Office Assistant (Theresa Strong): 26 June 26 2006
- Manager of Meetings (Julie Farver [promotion]): 28 April 28 2006
- Meeting/Travel Coordinator (Rashaad Elliott): 17 May 2006
- Senior Technical Program Associate (Ken Watanabe): 1 May 2006

LDEO

The following positions were vacated during the quarter:

- Manager of Engineering and Technology (Greg Myers): 24 June 2006

TAMU/TAMRF

The following positions were vacated during the quarter:

- Laboratory Specialist (Robert Wheatley): 30 April 2006
- Senior Designer (Richard Dixon): 15 May 2006

The following positions were opened and advertised during the quarter:

- Curatorial Specialist (3)
- Research Specialist I (2)
- Marine Instrumentation Specialist
- Production Specialist I
- Editor
- Senior Designer (2)
- Staff Scientist
- Administrative Assistant
- Graphic Specialist II (Temporary)

The following positions were filled during the quarter:

- Supervisor of Editing (Lorri Peters): 3 April 2006
- Applications Developer I (Paul Paskin): 5 April 2006
- Research Specialist I (Kazuho Fujine): 15 April 2006
- Applications Developer I (Stephanie Zeliadt): 26 April 2006
- Senior Designer (Mike Meiring): 1 May 2006
- Curatorial Specialist (Helene Gould): 15 May 2006
- Manager of Science Operations (Mitch Malone): 1 June 2006
- Systems Support Specialist (James Cordray): 1 June 2006
- Editor (Abbi Balsmeier): 12 June 2006
- Curatorial Specialist (Bruce Horan): 12 June 2006
- Systems Support Specialist (Tiffany Bloxom): 12 June 2006
- Curatorial Specialist (Susan Andershock): 16 June 2006
- Software Applications Developer II (Hai [James] Zhao): 21 June 2006

APPENDIX D: CONFERENCE AND MEETING SCHEDULE*

Conference/Meeting	Date	Location
Operations Review Task Force (ORTF), Expedition 308	18 and 19 May 2006	Washington, D.C.
Science Steering and Evaluation Panel (SSEP) Meeting	29 May–1 June 2006	Potsdam, Germany
IODP Operations Task Force Meeting	5 and 6 June 2006	Washington, D.C.
Operations Review Task Force (ORTF) Meeting, Expedition 309/312	12 and 13 June 2006	Washington, D.C.
Environmental Protection and Safety Panel (EPSP) Meeting	22 and 23 June 2006	Villefranche sur Mer, France
Scientific Technology Panel (STP) Meeting	26–28 June 2006	Helsinki, Finland
Engineering Development Panel (EDP) Meeting	27–29 June 2006	Windischeschenbach, Germany

*External meetings and conferences.

APPENDIX E: TRAVEL*

Purpose	Date	Location	Personnel	Institution
European Geophysical Union (EGU) Meeting	31 March–7 April 2006	Vienna, Austria	S. Higgins	LDEO
EGU Meeting	1–6 April 2006	Vienna, Austria	M. Morell	JOI
USIO NanTroSEIZE Expedition Planning Meeting	1–4 April 2006	College Station, Texas	A. Kopf, D. Saffer, E. Screaton, R. Stephen, M. Underwood	TAMU
Hewlett-Packard Open View Training	4 April 2006	Houston, Texas	P. Clark, D. Morley	TAMU
National Science Teachers' Association (NSTA) Conference	6–9 April 2006	Anaheim, California	M. Niemitz, L. Peart	JOI
American Association of Petroleum Geologists (AAPG) Meeting	4–7 April 2006	Houston, Texas	A. Cook	LDEO
AAPG Meeting	10 April 2006	Houston, Texas	C. Bennight, D. Fackler, P. Foster, D. Hornbacher, B. Lambi, Z. Mateo	TAMU

Purpose	Date	Location	Personnel	Institution
Microsoft Office Training	9–14 April 2006	Washington, D.C.	I. Kindt	TAMRF
Oracle XML Training	9–14 April 2006	Atlanta, Georgia	D. Sims	TAMU
Meeting with Stress Engineering Services, Inc.	12 April 2006	Houston, Texas	K. Grigar, M. Storms	TAMU
Excel Training Course	16–19 April 2006	San Francisco, California	B. Lancaster	TAMRF
Relocation to College Station	17–19 April 2006	College Station, Texas	S. Zeliadt	TAMU
Relocation to College Station	21 April 2006	College Station, Texas	M. Meiring	TAMU
LabWare User Conference	23–28 April 2006	San Antonio, Texas	D. Fackler, D. Houpt	TAMU
IODP-USIO Managers Meeting	24–26 April 2006	College Station, Texas	D. Goldberg	LDEO
IODP-USIO Managers Meeting	24–27 April 2006	College Station, Texas	S. Bohlen, D. Divins, F. Rack	JOI
American Management Association Training	24–29 April 2006	Las Vegas, Nevada	K. Johnson	TAMRF
Allen Press Emerging Trends Seminar	25–27 April 2006	Washington, D.C.	A. Miller	TAMU
Allen Press Emerging Trends Seminar and Training at EEI Communications	25–29 April 2006	Washington, D.C.	L. Peters	TAMU
Meeting at National Science Foundation (NSF)	27–29 April 2006	Washington, D.C.	J. Fox	TAMU
Time Management Training	26–28 April 2006	Dallas, Texas	T. Salamone	TAMRF
Offshore Technology Conference (OTC) 2006	30 April–3 May 2006	Houston, Texas	R. Mithal	TAMU
OTC 2006	1–3 May 2006	Houston, Texas	K. Graber	TAMU
OTC 2006	2 and 3 May 2006	Houston, Texas	B. Aduddell, L. Chen, D. Ferrell, K. Grigar, G. Pollard, D. Schroeder	TAMU
OTC 2006	2 May 2006	Houston, Texas	L. Crowder, R. Gjesvold, B. Hamlin, C. Peng	TAMU
OTC 2006	2–4 May 2006	Houston, Texas	G. Myers, G. Sarker	LDEO
OTC 2006	2–4 May 2006	Houston, Texas	F. Rack	JOI
OTC 2006	3 May 2006	Houston, Texas	T. Bronk, P. Thompson	TAMU
Society for Technical Communication (STC) Conference	6–11 May 2006	Las Vegas, Nevada	A. Miller	TAMU
STC Conference	6–13 May 2006	Las Vegas, Nevada	L. Peters	TAMU
Corewall Workshop	6–11 May 2006	Chicago, Illinois; Washington, D.C.	P. Blum, P. Foster, J. Miller	TAMU
Corewall Workshop	7–10 May 2006	Washington, D.C.	J. Fox	TAMU
Corewall Workshop	8–10 May 2006	Washington, D.C.	D. Divins, F. Rack	JOI
Human Resources Assistant Training	7–9 May 2006	Austin, Texas	C. Escamilla	TAMRF
IODP Euroforum	7–9 May 2006	Cardiff, United Kingdom	J. Inwood	LDEO
Expedition 301 Second Postcruise Meeting	7–12 May 2006	Fairbanks, Alaska	G. Iturrino	LDEO
Expedition 301 Second Postcruise Meeting	7–12 May 2006	Fairbanks, Alaska	Adam Klaus	TAMU
Meeting with RCI Asset Management Services	10 and 11 May 2006	Dallas, Texas	R. Mithal, P. Thompson	TAMU
Microsoft Office Training	13–17 May 2006	Washington, D.C.	D. DeShetler	TAMRF
OrCAD Training	14–17 May 2006	Pittsburgh, Pennsylvania	D. Ferrell	TAMU
Staff Scientist Candidate Interview	14–17 May 2006	College Station, Texas	J. Geldmacher	TAMU

Purpose	Date	Location	Personnel	Institution
Assistant Editor Candidate Interview	14–18 May 2006	College Station, Texas	A. Balsmeier	TAMU
Geological Association of Canada Meeting	14–18 May 2006	Montreal, Quebec	N. Banerjee	TAMU
Novell ID Management Seminar	15 and 16 May 2006	Austin, Texas	P. Clark, J. Hutchinson, M. Mefferd	TAMU
Operations Review Task Force (ORTF) Meeting (Expedition 308)	17–19 May 2006	Washington, D.C.	G. Iturrino, M. Reagan	LDEO
ORTF Meeting (Expedition 308)	17–19 May 2006	Washington, D.C.	J. Fox, C. John	TAMU
ORTF Meeting (Expedition 308)	17–20 May 2006	Washington, D.C.	R. Grout	TAMU
GeoFrame Training	19–23 May 2006	Paris, France	A. Belghoul	LDEO
American Payroll Association Conference	20–25 May 2006	Orlando, Florida	K. Huff	TAMRF
Staff Scientist Candidate Interview	21 May 2006	College Station, Texas	D. Tucker	TAMU
IODP Fault Zone Drilling Workshop	21–25 May 2006	Nagoya, Japan	G. Guerin	LDEO
IODP Fault Zone Drilling Workshop	21–25 May 2006	Tokyo and Yokohama, Japan	F. Rack	JOI
American Geophysical Union (AGU) 2006 Joint Assembly	24–26 May 2006	Baltimore, Maryland	B. Julson	TAMU
NanTroSEIZE Expedition Planning Meeting	26 May–3 June 2006	Yokohama, Japan	Adam Klaus	TAMU
Center for Deep Earth Exploration (CDEX) Meeting	26 May–1 June 2006	Miyazaki, Japan	F. Rack	JOI
The Fifth Geochemical Earth Reference Model (GERM) Workshop at Columbia University	27 May–1June 2006	Palisades, New York	C. Bennight	TAMU
The Fifth GERM Workshop at Columbia University	28–31 May 2006	Palisades, New York	N. Banerjee	TAMU
Science Steering and Evaluation Panel (SSEP) Meeting	26 May–2 June 2006	Potsdam Germany	M. Malone	TAMU
SSEP Meeting	26 May–4 June 2006	Potsdam, Germany	C. Alvarez Zarikian	TAMU
SSEP Meeting	27 May–4 June 2006	Potsdam, Germany	G. Iturrino	LDEO
SSEP and Minorities Striving and Pursuing Higher Degrees of Success (MS PHD'S) in Earth Systems Science Program Meetings	29 May–1 June 2006	Potsdam, Germany	A. Castner	JOI
Visit to JAMSTEC Office and Miraikan Museum	29 and 30 May 2006	Yokohama, Japan	Ann Klaus	TAMU
Modular High-Temperature Tool (MTT) Telemetry Tool Test	2 and 3 June 2006	Webster, Texas	W. Keogh	LDEO
IODP Operations Task Force Meeting	4–6 June 2006	Washington, D.C.	M. Reagan	LDEO
IODP Operations Task Force Meeting	4–7 June 2006	Washington, D.C.	J. Baldauf	TAMU
IODP Operations Task Force Meeting	5 and 6 June 2006	Washington, D.C.	D. Divins, F. Rack	JOI
Meeting of USIO partners at Lamont-Doherty Earth Observatory (LDEO) of Columbia University	5–8 June 2006	Newark, New Jersey	J. Fox	TAMU

Purpose	Date	Location	Personnel	Institution
APS Technology Meeting	5–8 June 2006	Cromwell, Connecticut; Palisades, New York	B. Aduddell, K. Grigar, D. Schroeder	TAMU
APS Technology Meeting	5–7 June 2006	Cromwell, Connecticut	M. Strickland	TAMRF
APS Technology Meeting	6 June 2006	Cromwell, Connecticut	W. Keogh, W. Masterson	LDEO
Society for Scholarly Publishing (SSP) Conference	6–15 June 2006	Washington, D.C.	G. Lowe	TAMU
Staff Scientist Candidate Interview	7–10 June 2006	College Station, Texas	Y. Li	TAMU
ORTF Meeting (Expedition 309/312)	11–13 June 2006	Washington, D.C.	N. Banerjee, M. Malone	TAMU
ORTF Meeting (Expedition 309/312	11–14 June 2006	Washington, D.C.	R. Grout	TAMU
ORTF Meeting (Expedition 309/312	12 June 2006	Washington, D.C.	G. Iturrino, M. Reichow	LDEO
ORTF Meeting (Expedition 309/312	12 and 13 June 2006	Washington, D.C.	D. Divins	JOI
Cadence Training	10–16 June 2006	San Jose, California	D. Ferrell	TAMU
Allegro Training	11–17 June 2006	San Jose, California	L. Chen	TAMU
LabWare Training	11–17 June 2006	Wilmington, Delaware	D. Fackler	TAMU
Preparing Radioactive Materials Transport Training	12–17 June 2006	Las Vegas, Nevada	S. Dillard	TAMU
2006 Joint Annual Meeting and Conference of the American Society of Indexers (ASI) and the Indexing and Abstracting Society of Canada (IASC/SCAD)	14–18 June 2006	Toronto, Canada	K. Phillips	TAMU
Contracts Audit and Dispute Resolution Training	19–21 June 2006	Las Vegas, Nevada	L. Schulze	TAMRF
Annual visit to the East Coast Repository (ECR)	19–21 June 2006	Palisades, New York	J. Firth	TAMU
Environmental Protection and Safety Panel (EPSP) and Engineering Development Panel (EDP) Meetings	19–30 June 2006	Villefranche Sur Mer, France; Windischeschenbach, Germany	J. Baldauf	TAMU
EPSP Meeting	20–25 June 2006	Villefranche Sur Mer, France	D. Quoidbach	LDEO
EPSP Meeting	21–24 June 2006	Villefranche Sur Mer, France	M. Hovland	TAMU
EDP Meeting	25–30 June 2006	Windischeschenbach, Germany	K. Grigar, J. Miller	TAMU
Scientific Technology Panel (STP) Meeting	24–29 June 2006	Helsinki, Finland	P. Blum	TAMU
STP Meeting	24–29 June 2006	Helsinki, Finland	S. Higgins	LDEO
OrCAD Capture Training	25–28 June 2006	Baltimore, Maryland	L. Chen	TAMU
ED-MEDIA Conference	26–30 June 2006	Orlando, Florida	M. Niemitz	JOI
Excel Training	26–29 June 2006	San Diego, California	V. Day	TAMRF

*Travel associated with meetings, conferences, port call work, and nonroutine sailing activities.

APPENDIX F: DATA REQUESTS

Top 10 Countries Accessing Janus Web Database FY06 Q2*†		
Rank	**Country**	**Visitor Sessions**
1	United States	17,913
2	Germany	510
3	United Kingdom	364
4	France	281
5	Japan	279
6	Canada	126
7	Netherlands	118
8	Italy	90
9	China	85
10	Spain	75
	All others	555
	Total	**20,396**
Top 10 Countries Accessing Janus Web Database FY06 Q3*		
Rank	**Country**	**Visitor Sessions**
1	United States	27,250
2	Germany	485
3	United Kingdom	391
4	Japan	267
5	Canada	201
6	France	174
7	Italy	86
8	Netherlands	80
9	China	72
10	Spain	56
	All others	571
	Total	**29,636**

*Excluding access from IODP-USIO Science Services, TAMU.
†Revised Q2 report (technical problems prevented the collection and reporting of TAMU statistics in the Q2 report; the revision includes this data).

Top 20 Janus Web Queries FY06 Q2*†		
Rank	**Query**	**Uploads**
1	Sample report	2,451
2	Core photos	714
3	Hole trivia	711
4	Site hole summary	634
5	Core section summary	540
6	Point calculator	530
7	Sample requests	529
8	Leg summary	433
9	Moisture and density (MAD)	363
10	Hole core summary	334
11	Chemistry (interstitial water)	299
12	Chemistry (carbonates)	299
13	Prime data images	289
14	Bulk density (GRA)	279
15	Depth calculator	246
16	Age model	211
17	Site details	199
18	Magnetic susceptibility	177
19	Sample totals	157
20	Sample codes	142
	Database overview and others	2,598
	Total	**12,135**
Top 20 Janus Web Queries FY06 Q3*		
Rank	**Query**	**Uploads**
1	Sample report	1,523
2	Hole trivia	905
3	Core photos	810
4	Site hole summary	605
5	Point calculator	441
6	Leg summary	364
7	Core section summary	355
8	Age model	294
9	Sample requests	257
10	Bulk density (GRA)	219
11	Sample template	211
12	Hole core summary	207
13	Moisture and density (MAD)	201
14	Chemistry (interstitial water)	190
15	Magnetic susceptibility	153
16	Rock eval	149
17	Hole core summary (alternative summary)	147
18	Age profile	137
19	Depth calculator	136
20	Range table	136
	Database overview and others	2,743
	Total	**3,709**

*Excluding access from IODP-USIO Science Services, TAMU.
†Revised Q2 report (technical problems prevented the collection and reporting of TAMU statistics in the Q2 report; the revision includes this data).

Data Requests to Data Librarian FY06 Q2*†	
Requests	**Total**
Country:	
United States	28
Japan	5
France	3
Germany	3
Netherlands	2
Canada	1
New Zealand	1
Tunisia	1
United Kingdom	1
Total	**45**
Data:	
Data request	17
DB query problem/question	12
Photo request	11
Data correction	2
Moratorium log-in problem	2
Data question	1
Total	**45**
Data Requests to Data Librarian FY06 Q3*	
Requests	**Total**
Country:	
United States	28
United Kingdom	4
Germany	3
Japan	3
Denmark	2
France	2
Italy	2
South Korea	2
Netherlands	1
Chile	1
Total	**48**
Data:	
Data request	18
DB query problem/question	12
Photo request	11
Data question	4
Moratorium log-in problem	2
Data correction	1
Total	**48**

*Excluding access from IODP-USIO Science Services, TAMU.
†Revised Q2 report (technical problems prevented the collection and reporting all of the TAMU statistics in the Q2 report; the revision includes this data).

IODP-USIO Science Services, LDEO, Logging Data Requests		
Expedition	**Request Number, Name, Affiliation, Country**	**Type of Data**
	There were no data requests for this period.	

APPENDIX G: SAMPLE REQUESTS

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
East Coast Repository:			
		18701A, Horst, USA	3
		20110A, Hirono, Japan	23
		20166B, Nielsen, Kelly, USA	64
		20478B, Morris, Paytan, Bullen, USA	6
		20775B, Strogen, Jolley, United Kingdom	13
		20858A, Veevers, Austrailia	27
		20908A, Regelous, United Kingdom	39
	2	20928A, Sager, USA	165
		20931A, Smart, United Kingdom	76
		20932A, Peucker-Ehrenbrink, USA	19
		20935A, Pahnke, USA	2
		20942A, Billups, Martin, Sommerfield, USA	112
	1	20952A, Kalb, Bralower, USA	158
		20960A, Hollis, New Zealand	76
Total science	3		
Total education	0		
Total PR	0		
Total:	**3**	**14**	**783**
Gulf Coast Repository:			
		18537C, Pospelova, Pedersen, Canada	30
		20166B, Nielsen, Kelly, USA	74
		20197G, Bohaty, Zachos, USA	22
		20289C, Zachos, Roehl, Murphy, USA	185
		20317D, Martin, USA	2
		20327D, Beld, Germany	465
		20345B, Salisbury, Canada	33
		20478B, Morris, Paytan, Bullen, USA	11
		20643B, Gourlan, France	44
		20814A, Maurya, India	13
		20844A, Gupta, India	1677
		20891A, Fuwa, Sakai, Kikawa, Japan	48
		20895A, Bartolini, Clemence, Gardin, France	67
		20902A, Lyle, Lyle, USA	352
		20903A, Oda, Suzuki, Sato, Japan	233
		20904A, Tripati, Elderfield, United Kingdom	128
		20906A, Robinson, USA	12
		20907A, Robinson, USA	7
	1	20910A, Rea, Abrajevitch, Van der Voo, USA	1427
		20913A, Potter, Australia	9
		20915A, Liu, Meng, China	194
		20921A, Peck, Haywood, United Kingdom	149
		20924A, Dowsett, USA	25
		20927A, Pichevin, Ganeshram, United Kingdom	1197
		20934A, Barron, Barron, USA	87
		20939A, Monteil, Helby, Australia	3
	1	20944A, Byrne, Anderson, USA	342
		20956A, Wortmann, Canada	200
		20957A, Rosenthal, Huang, USA	313
		20967A, Anand, James, United Kingdom	84
		20967B, Anand, James, United Kingdom	193
		20972A, Miyoshi, Hasenaka, Japan	51
		20978A, McManus, USA	217
		20982A, Polissar, Freeman, USA	16
	1	20991A, Julian, USA	112
	28	Public Relations Tours (8)	No samples
Total science	3		
Total education:	0		
Total PR:	28		
Total:	**31**	**35**	**8022**

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
West Coast Repository:			
		16563G, Knappertsbusch, Switzerland	1
		20855B, D'Hondt, Schrum, USA	16
		20922A, Pettke, Kodolanyi, Spandler, Switzerland	8
		20932A, Peucker-Ehrenbrink, USA	7
		20941A, Fantle, USA	53
		20958A, Pellan, France	135
		20971A, Lazarus, Schmidt, Germany	11
		20977A, Francis, Dickens, USA	21
		20985A, Shamrock, Watkins, USA	64
		21000A, Jaeger, USA	62
	25	20936A, Norris, Dick, USA (Educational Visit)	0
	25	20955A, Gonzales-Yajimovich, (Educational Visit)	0
Total science:	0		
Total education:	50		
Total PR:	0		
Total:	**50**	**10**	**378**

APPENDIX H: PUBLICATIONS

Publication	Release Date	URL
Preliminary Report:		
Expedition 310 (prepared by USIO)	26 May 2006	http://www.ecord.org/exp/tahiti/310PR.html
Expedition 312 (Superfast Spreading Rate Crust 3)	20 April 2006	http://iodp.tamu.edu/publications/PR/312PR/312PR.html
Proceedings of the Integrated Ocean Drilling Program:		
Expedition 304/305 (Oceanic Core Complex Formation, Atlantis Massif)	3 June 2006	http://iodp.tamu.edu/publications/exp304_305/30405toc.htm

APPENDIX I: WEB

Comparison of Web access statistics averages between FY06 Q2 and FY06 Q3 indicates a 6% increase in Web site traffic.

USIO

FY06 Q2 USIO Web Site† (Servers: www.iodp-usio.org + iodp.tamu.edu + iodp.ldeo.columbia.edu)				
Parameter	**JOI**	**LDEO**	**TAMU**	**Totals**
Page views	21,103	4,861	328,392	354,356
Site visits*	12,952	4,781	43,822	61,555
FY06 Q3 USIO Web Site (Servers: www.iodp-usio.org + iodp.tamu.edu + iodp.ldeo.columbia.edu)				
Parameter	**JOI**	**LDEO**	**TAMU**	**Totals**
Page views	20,085	5,802	379,816	405,703
Site visits*	12,357	6,460	46,470	65,287

†Revised Q2 report (technical problems prevented the collection and reporting of TAMU statistics in the Q2 report; the revision includes this data).

*Where possible, visits by USIO employees and search engine spiders and robots have been filtered out.

New Web Pages	Release Date	URL
About IODP-USIO: acronyms	Jun 2006	http://www.iodp-usio.org/About/acronyms.html
Samples: MRCs	Jun 2006	http://iodp.tamu.edu/curation/mrc.html
Newsroom: press releases	Jun 2006	http://www.iodp-usio.org/Newsroom/releases.html
Logging: ODP searches	Jun 2006	http://iodp.ldeo.columbia.edu/DATA/ODP/index.html
Logging: IODP manual	Jun 2006	http://iodp.ldeo.columbia.edu/DATA/IODP/manual_iodp.html
Logging: DSDP manual	Jun 2006	http://iodp.ldeo.columbia.edu/DATA/DSDP/manual_dsdp.html
Logging: introduction	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/
Logging: data processing	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/processing.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/tools.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/TRIPLE/aps.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/TRIPLE/dit.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/TRIPLE/hlds.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/TRIPLE/hngs.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/LEGACY/tap.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/FMS/dsi.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/FMS/fms_mest.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/FMS/sgt.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/THIRD/cb_dsa_xm.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/THIRD/cb_rmm.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/THIRD/cb_tt.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/THIRD/mgt.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/THIRD/uht_msm.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/ari.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/asi.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/dll.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwc_rab.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwd_adn.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwd_arc.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwd_ecoscope.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwd_isonic.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwd_mrt.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/lwd_rab.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/mwd.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/qait.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/qsst.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/ubi.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/vsi.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/wst.html
Logging: tools	Jun 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/wst-3.html

APPENDIX J: DSDP/ODP CORE REDISTRIBUTION PROJECT

Approval was received from IODP-MI in April 2006 to initiate the Deep Sea Drilling Project (DSDP)/Ocean Drilling Program (ODP) Core Redistribution Project. The East Coast Repository (ECR) hired three full-time employees and three student positions to begin packing cores in May and June 2006. Total inventory of ECR d-tubes was completed, and old DSDP core catchers (not stored in d-tubes) and sample residues were packed, placed on pallets, and prepared for shipment. Additional equipment and supplies were ordered for the ECR, and packing of the first DSDP cores from Leg 2 onward began in June 2006 for shipment to the Bremen Core Repository (BCR).

APPENDIX K: EDUCATION

U.S. education activities are supported by NSF through systems integration contract (SIC) funding. These activities are not included in the POC and SOC budgets.

JOI LEARNING

INVENTORY AND EVALUATION

The College of Exploration (COE) (http://www.coexploration.org/), the external evaluator for the JOI Learning program, delivered the final report of its evaluation of past and current education and outreach content in both written and oral form. The COE team presented their evaluation to JOI directors and staff, members of the USIO staff, and the U.S. Advisory Committee for Scientific Ocean Drilling (USAC) Education Subcommittee. The evaluation was also distributed to USAC and NSF and is available upon request.

EDUCATION VISUAL IDENTITY—JOI LEARNING WEBSITE

A new Web site for JOI Learning was launched in early April 2006 as part of the USIO agreement to partner with other JOI-sponsored programs and develop a single "portal" for educators to locate education and outreach content. The majority of the content that was previously on the USIO Education and U.S. Science Support Program (USSSP) Web sites was migrated to this new site. The Web site design uses the new JOI Learning visual identity, highlights links to educator resources and professional development more prominently, and includes space for highlights, upcoming events, and an online registration form to subscribe to the JOI Learning list-serve. Ongoing updates were completed on the new site during the quarter. (See http://www.joilearning.org.)

MATERIALS DEVELOPMENT AND EDUCATION PROGRAMS

SCHOOL OF ROCK EXPEDITION

Postexpedition work during the quarter in support of the pilot program "School of Rock: An Ocean-going, Hands-on Expedition for Earth and Ocean Science Educators" included the editing and publishing of several new classroom activities and completion of the 11 sections of the School of Rock library (http://www.joilearning.org/schoolofrock) that include detailed background information and science activities linked to related drilling program data and publications. Planning also began for the School of Rock postexpedition meeting to be held in early August 2006 at Texas A&M University.

JOI Learning exhibited at the Conference on Ocean Literacy (CoOL) in Washington, D.C., on 7 and 8 June 2006, where discussions and panels held about the state of ocean literacy in the United States were attended by members of Congress, high-level government agency officials, and scientists.

JOI Learning provided an activity on the topic of "Citizen Science" for American Geological Institute's (AGI's) Earth Science Week calendar.

This quarter the JOI Learning Web site was added for inclusion in the National Science Digital Library (NSDL) for Earth Science Education (http://crs.nsdl.org/collection/) and the Digital Library for Earth System Education (DLESE; http://www.dlese.org). NSDL was created by NSF to provide organized access to high-quality resources and tools that support innovations in teaching and learning at all levels of science, technology, engineering, and mathematics education. DLESE is a collaborative effort to provide support and leadership in addressing the

national reform agenda for science education, scientific literacy, and scientific discovery that serves scientists, educators, and learners working together to improve the quality and efficiency of teaching and learning about the Earth system at all levels.

Also, inadvertently excluded from the last quarter's report, the USIO attended the Geoscience Education and Public Outreach Network (GEPON) meeting 22–24 March 2006 in Boulder, Colorado, to engage in discussions linking scientists with educators and public outreach professionals in the pursuit of achieving broader impacts. Participation in GEPON will greatly enhance JOI Learning's ability to serve its science community.

HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP

In April 2006, two Fellows were selected for the 2006–2007 academic year. Q. Conyers and E. Auxiliaire are both Masters students in Mass Communication and Media Studies at Howard University. Conyers, a second-year HBCU Fellow, will continue her work on USIO public outreach activities. Auxiliaire has an interest in science education and will work on education activities, including a special outreach project with the Washington, D.C., area public schools. The USIO continues to face challenges in recruiting Fellowship applicants from HBCUs, and thus continues to discuss whether the Fellowship is the best mechanism to attract (and retain) minorities to the Earth science and geosciences.

MINORITIES STRIVING AND PURSUING HIGHER DEGREES OF SUCCESS IN EARTH SYSTEM SCIENCE INITIATIVE

In May 2006, the USIO provided partial funding for A. Castner (Executive Program Associate, JOI) to take seven students participating in the MS PHD'S Program to observe the IODP SSEP Meeting held in Potsdam, Germany. The group was composed of graduate students from Florida A&M University, University of South Florida, Georgia Institute of Technology, University of South Florida, Virginia Institute of Marine Science at the College of William and Mary, and Howard University and an undergraduate student from Universidad Metropolitana, Puerto Rico. Six U.S. scientists serving on SSEP served as meeting mentors to the students and engaged with them regarding the science discussions, proposal development and evaluation, and how science can serve a diplomatic function in the international sphere. During the meeting, the students engaged in activities that contributed to their professional development, including reading three full proposals that were reviewed by the panel and discussing them prior to the meeting with JOI staff; observing the panel's proposal review discussions; debriefing their observations and lessons learned each day with panel members serving as meeting mentors; participating in the ancillary activities planned for the panel; and networking with international scientists serving on the panel. At the conclusion of the meeting business, the students made a presentation to the panel on their experience and what they learned by observing the panel meeting and they also shared some detail on their own research and how it did or could connect to the science goals of IODP.

After two years of partnering with the MS PHD'S Program and supporting the participation of students in the SSEP meeting, the USIO has received some important feedback about how this activity has broadened the perspectives of the students who have participated and has introduced them to an entirely new facet of science. The students were asked to evaluate their experience, and key observations were noted in their evaluations. Most of the evaluations noted that the idea of "international" science and the criticality of strong international collaborations are entirely new to the students' understanding of how successful science works. It was also noted that observing the proposal nurturing process was very beneficial to the students' understanding of

the elements of a strong proposal: good writing, appropriate data and collaborations, a feasible plan, etc. One of the most interesting comments came from a woman of Hispanic heritage, who said that the experience really opened her eyes about how much of a minority she really is, even in the international sphere. Given this new perspective, she noted the need for and a new appreciation of activities that enhance broader participation in the sciences, like the activities of the MS PHD'S Program and its partnership with the USIO.

OUTREACH/CONFERENCES

ED-MEDIA—World Conference on Educational Multimedia, Hypermedia, and Telecommunications: M. Niemitz (Program Assistant at JOI) gave a lecture at the ED-MEDIA—World Conference on Educational Multimedia, Hypermedia, and Telecommunications, in Orlando, Florida, 26–30 June 2006. The lecture, titled "Ship-to-Shore Educational Communications and Interactivity via the World Wide Web: The School of Rock Expedition Case Study," focused on the design and development of the School of Rock Expedition Web site. The corresponding paper was published in the conference proceedings.

National Science Teachers' Association: Through JOI Learning, on 4 and 5 April 2006 the USIO was represented with an increased presence at the National Science Teachers' Association (NSTA) annual conference with a highly interactive and innovative booth that attracted more than 1500 educators. A teacher workshop was conducted in partnership with textbook publisher Macmillan-McGraw Hill during which several new activities were presented to a majority of teachers that had not previously heard of IODP. School of Rock scientist Dr. K. St. John (Madison University) spoke at the NSTA Earth and Space Science Resource Day during the conference and spoke on bringing the science of scientific ocean drilling into the classroom while using School of Rock activities as a model. Finally, L. Peart (Director of Education, JOI) had the opportunity to address the breakfast for Presidential Math and Science Teaching Award winners. Adding to the core pencil series, a new "www.joilearning.org" pencil featuring a core from ODP Leg 158 was distributed to teachers who visited the JOI Learning conference booth.

SUPPLEMENTAL EDUCATION FUNDING

JOI Learning collaborated with the Consortium for Oceanographic Research (CORE), The Teacher Armada Program, Centers for Ocean Sciences Education Excellence (COSEE) West, TAMU, and others on a proposal in response to the NSF solicitation for the Geoscience Teacher Training (GEO-Teach) program, entitled "Project Ocean Link." If funded, JOI Learning will act as a subcontractor to provide science content links between compelling biological "hooks" from the great whales and intricate microfossils to geoscience concepts, and will work with TAMU to test teacher workshops in a rural setting. JOI Learning also provided a letter of support to the Exploratorium for its proposal to the International Polar Year for a virtual field trip during the 2009 Wilkes Land expedition.

APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

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